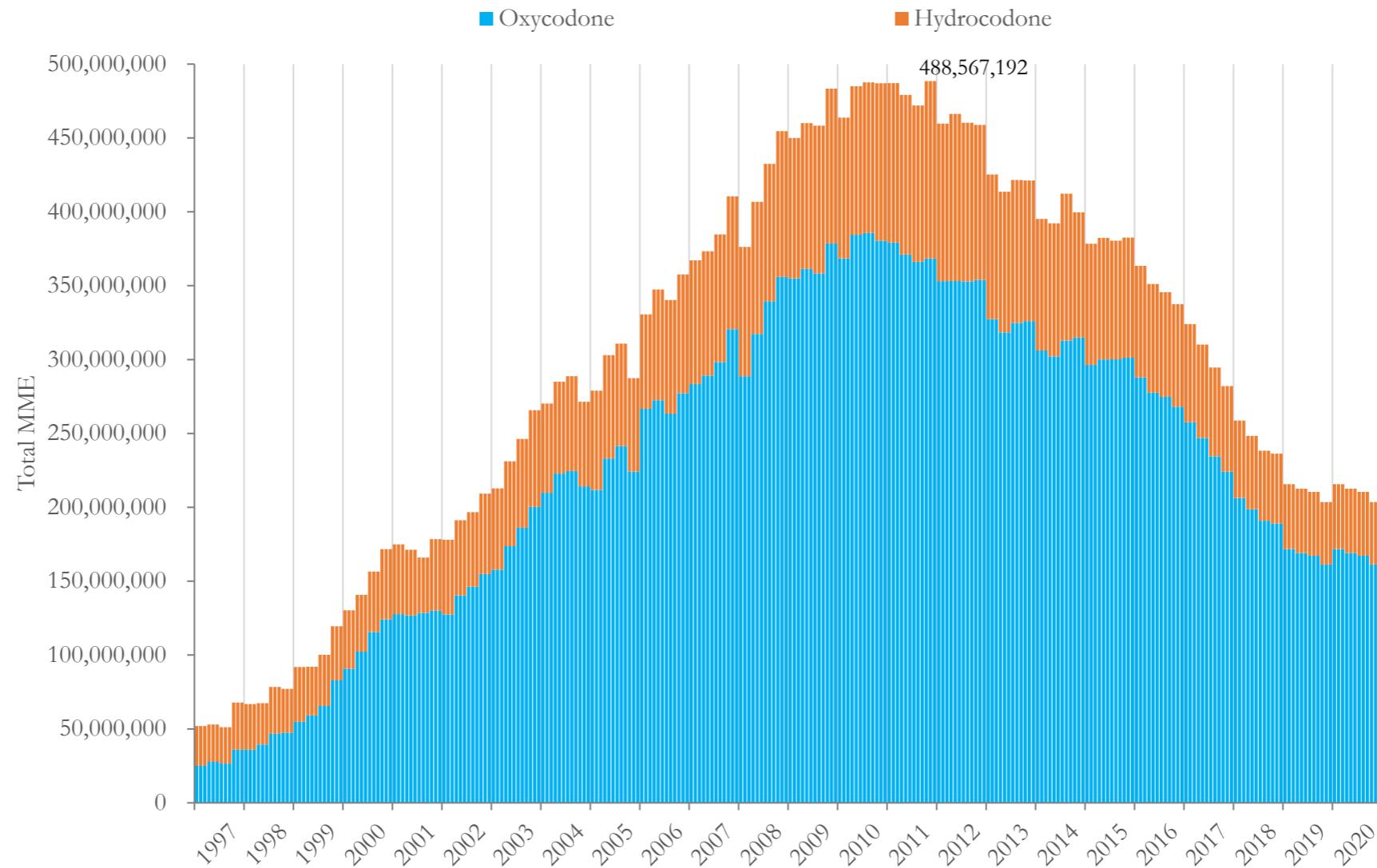


EXHIBIT A

Drug Name	Drug Code	U.S.		State of Ohio			Lake/Trumbull		Lake County, OH			Trumbull County, OH				
		Total Shipments in Dosage Unit	Average Annual Shipment per Cap	Total Shipments in Dosage Unit	Average Annual Shipment per Cap	Total Shipments in Dosage Unit	Average Annual Shipment per Cap	Total Shipments in Dosage Unit	Average Annual Shipment per Cap	Total Shipments in Dosage Unit	Average Annual Shipment per Cap	Total Shipments in Dosage Unit	Average Annual Shipment per Cap			
Hydrocodone	9193	71,513,949,560	52.7%	25.72	2,544,868,567	43.8%	24.51	109,796,212	47.3%	27.75	37,625,304	37.3%	18.21	72,170,908	55.0%	38.16
Oxycodone	9143	39,443,638,048	29.1%	14.19	2,312,717,726	39.8%	22.28	91,026,565	39.2%	23.00	47,029,135	46.6%	22.76	43,997,430	33.5%	23.27
Subtotal		110,957,587,609	81.8%	39.91	4,857,586,293	83.6%	46.79	200,822,777	86.5%	50.75	84,654,439	83.9%	40.98	116,168,338	88.6%	61.43
Morphine	9300	6,160,024,567	4.5%	2.22	215,669,019	3.7%	2.08	6,567,754	2.8%	1.66	3,559,184	3.5%	1.72	3,008,570	2.3%	1.59
Codeine	9050	5,542,104,687	4.1%	1.99	226,269,982	3.9%	2.18	7,560,943	3.3%	1.91	3,703,501	3.7%	1.79	3,857,442	2.9%	2.04
Hydromorphone	9150	2,508,931,874	1.8%	0.90	78,347,139	1.3%	0.75	1,915,472	0.8%	0.48	1,263,788	1.3%	0.61	651,684	0.5%	0.34
Fentanyl	9801	827,665,591	0.6%	0.30	39,138,267	0.7%	0.38	1,334,349	0.6%	0.34	660,762	0.7%	0.32	673,587	0.5%	0.30
Oxymorphone	9652	603,913,954	0.4%	0.22	34,610,220	0.6%	0.33	1,037,160	0.4%	0.26	532,460	0.5%	0.26	504,700	0.4%	0.27
Tapentadol	9780	341,800,982	0.3%	0.12	20,520,079	0.4%	0.20	898,560	0.4%	0.23	607,540	0.6%	0.29	291,020	0.2%	0.15
Meperidine	9230	277,898,650	0.2%	0.10	6,768,450	0.1%	0.07	270,875	0.1%	0.07	117,075	0.1%	0.06	153,800	0.1%	0.08
Dihydrocodeine	9120	35,923,889	0.0%	0.01	1,961,439	0.0%	0.02	125,454	0.1%	0.03	52,522	0.1%	0.03	72,932	0.1%	0.04
Levorphanol	9220L	12,966,499	0.0%	0.00	175,800	0.0%	0.00	1,300	0.0%	0.00	900	0.0%	0.00	400	0.0%	0.00
Opium, Powdered	9639	6,413,324	0.0%	0.00	441,612	0.0%	0.00	13,320	0.0%	0.00	8,688	0.0%	0.00	4,632	0.0%	0.00
Total Non-Treatment Drug		127,275,231,624	93.8%	45.78	5,481,488,299	94.4%	52.80	220,547,964	95.1%	55.74	95,160,859	94.4%	46.06	125,387,105	95.6%	66.37
Treatment Drug																
Buprenorphine	9064	1,798,413,522	1.3%	0.65	87,735,668	1.5%	0.85	2,777,912	1.2%	0.70	1,325,788	1.3%	0.64	1,452,124	1.1%	0.77
Methadone	9250B	6,591,133,464	4.9%	2.37	238,977,238	4.1%	2.30	8,706,100	3.8%	2.20	4,362,300	4.3%	2.11	4,343,800	3.3%	2.30
Grand Total		135,664,778,610	100.0%	48.79	5,808,201,206	100.0%	55.95	232,031,976	100.0%	58.64	100,848,947	100.0%	48.81	131,183,029	100.0%	69.37

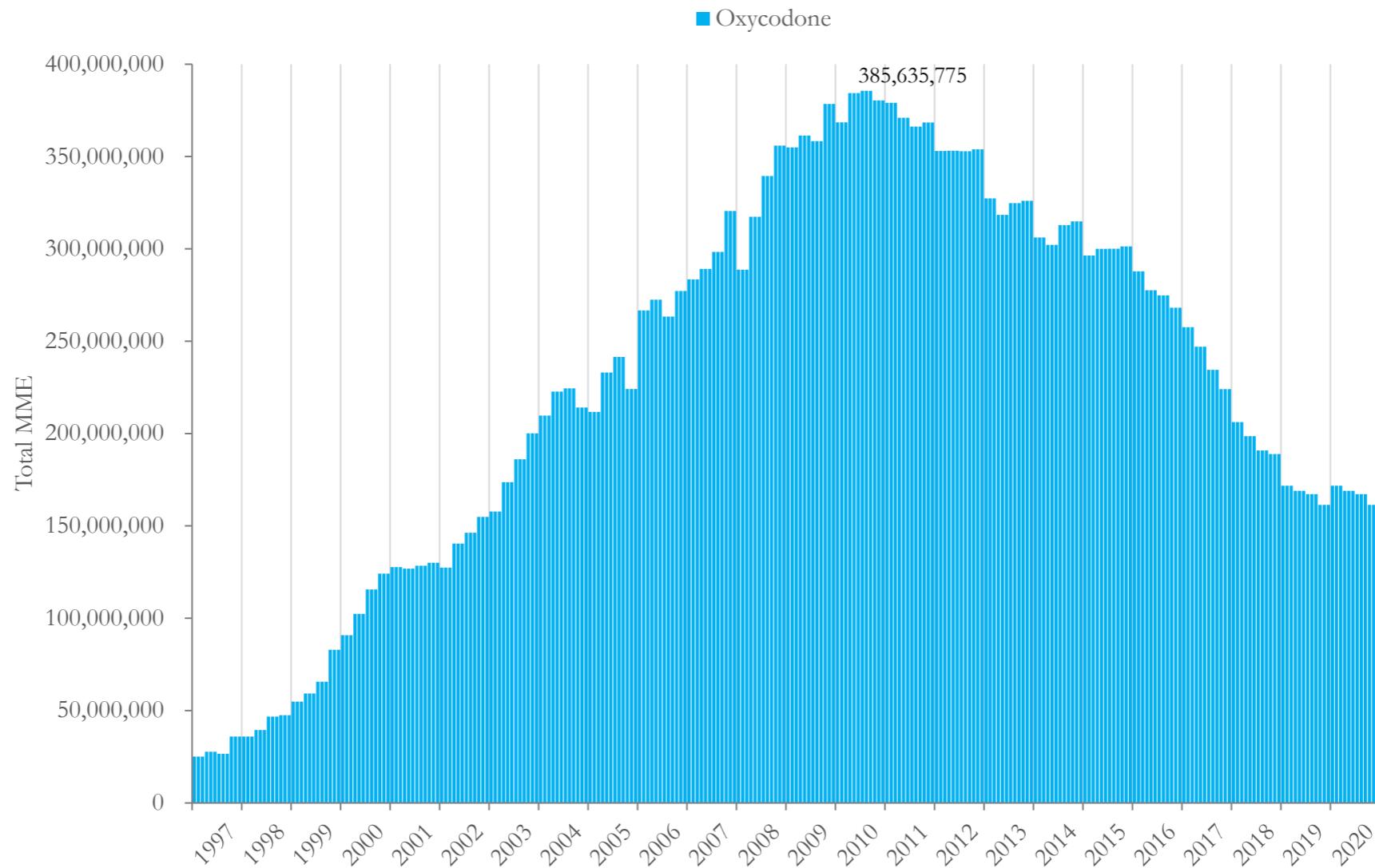


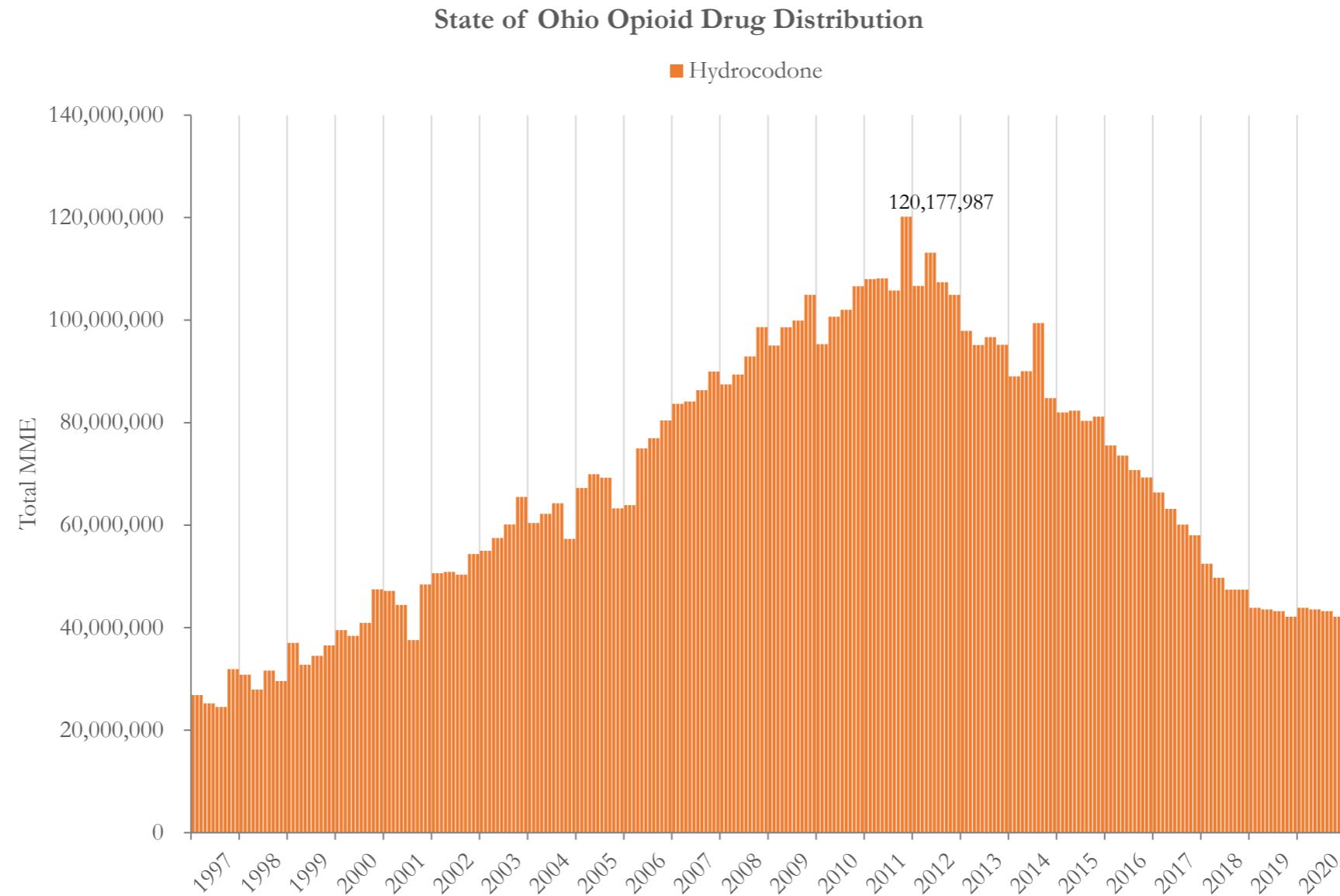
State of Ohio Opioid Drug Distribution



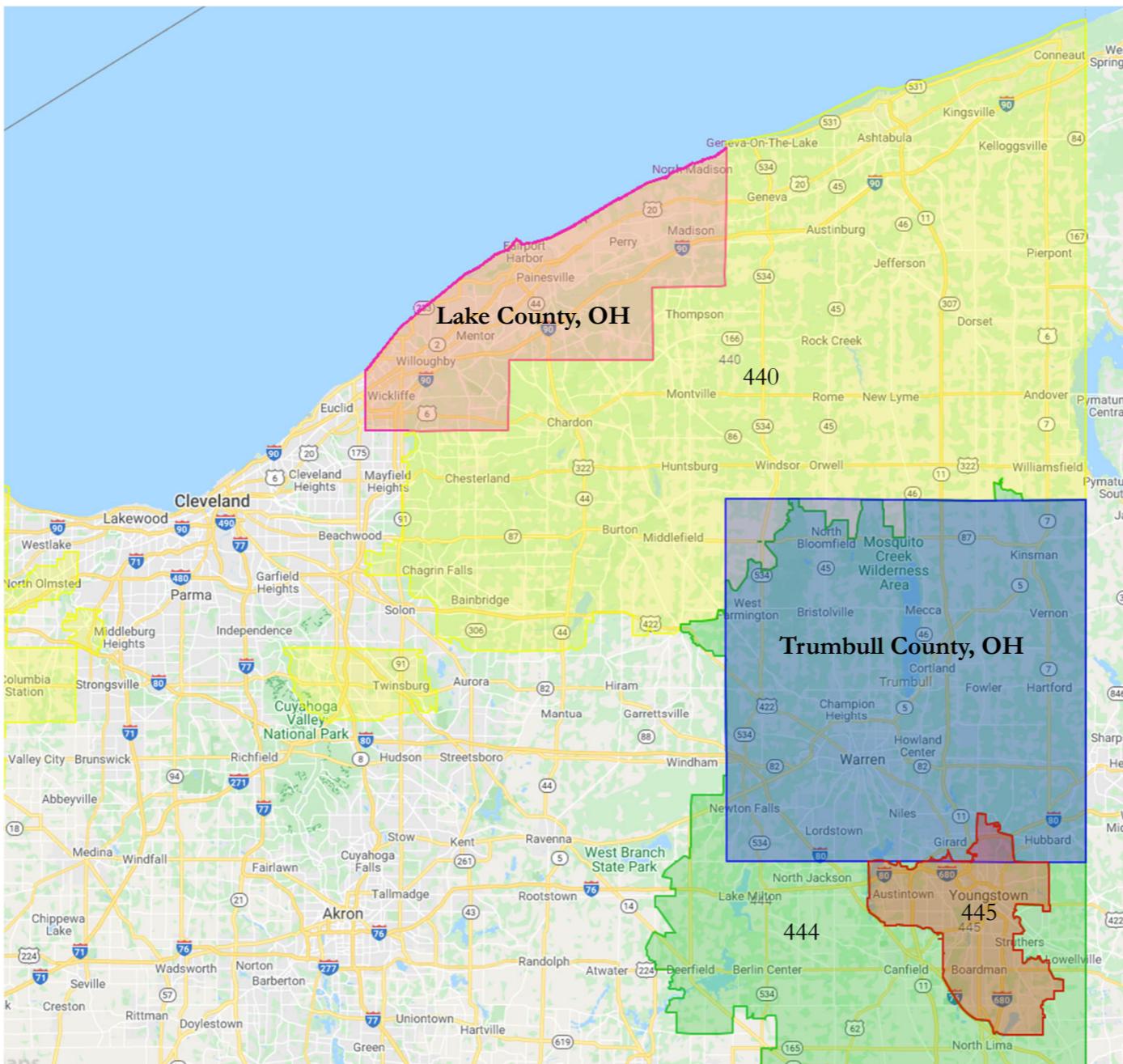


State of Ohio Opioid Drug Distribution

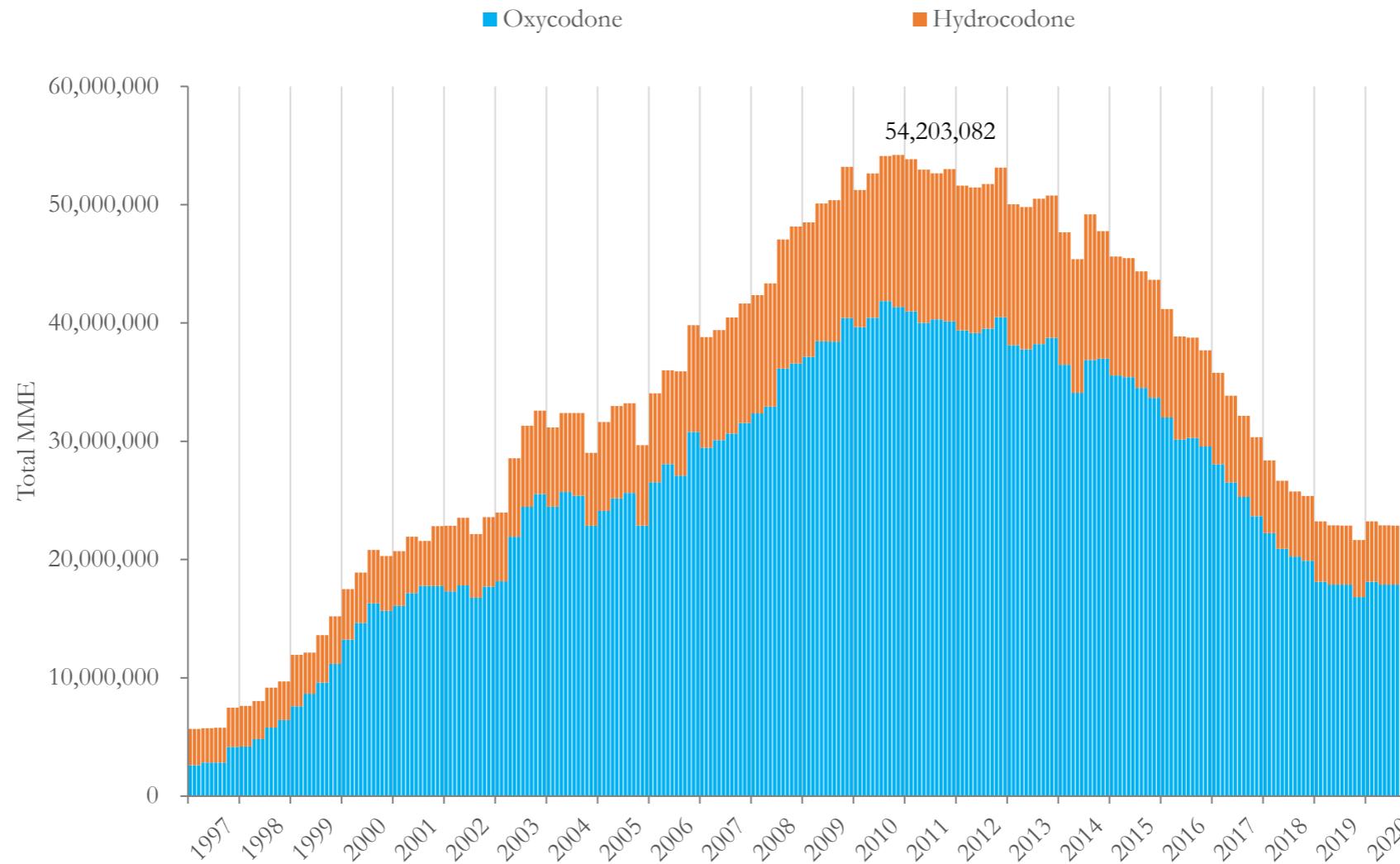




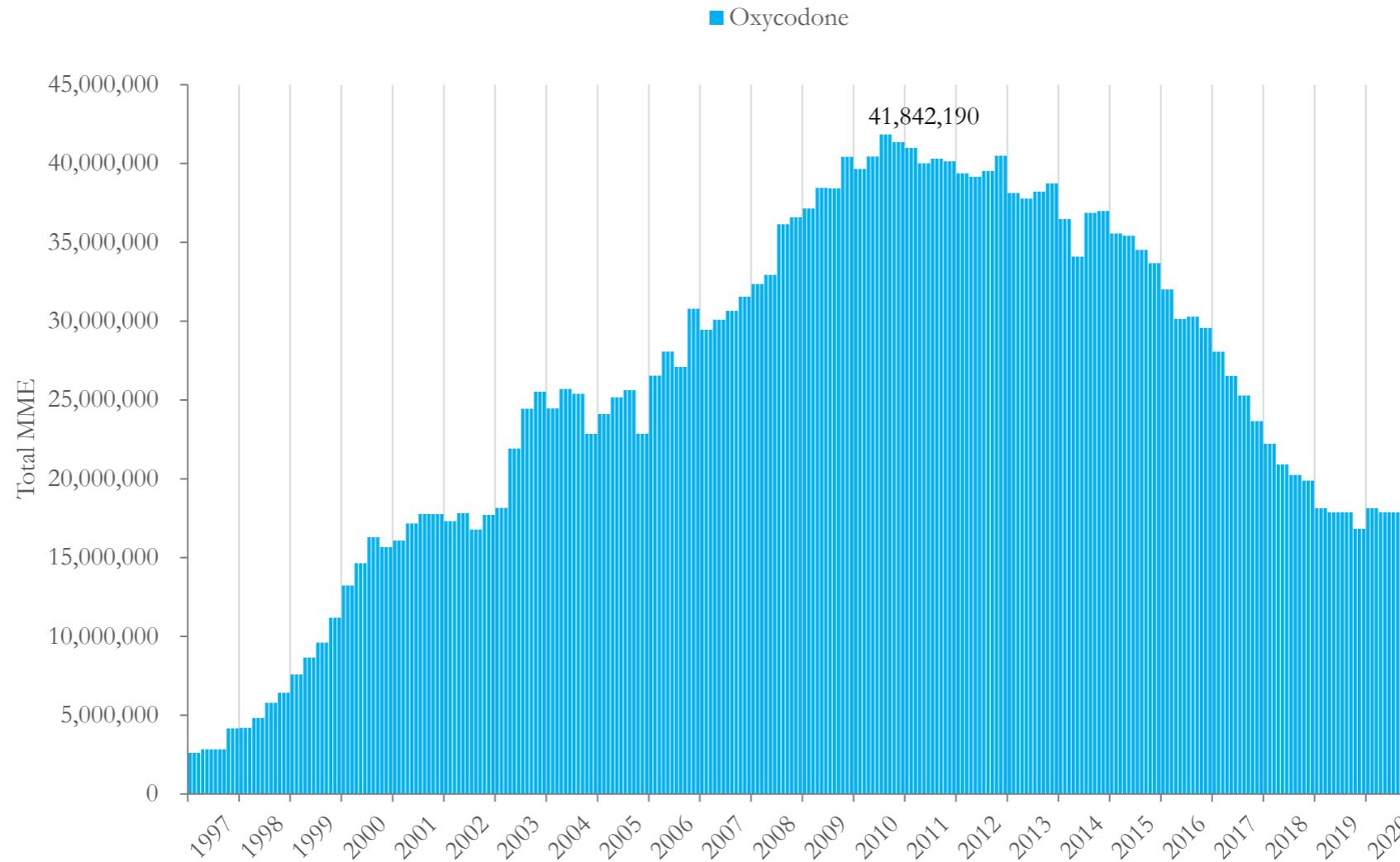
Map of Lake County, OH and Trumbull County, OH



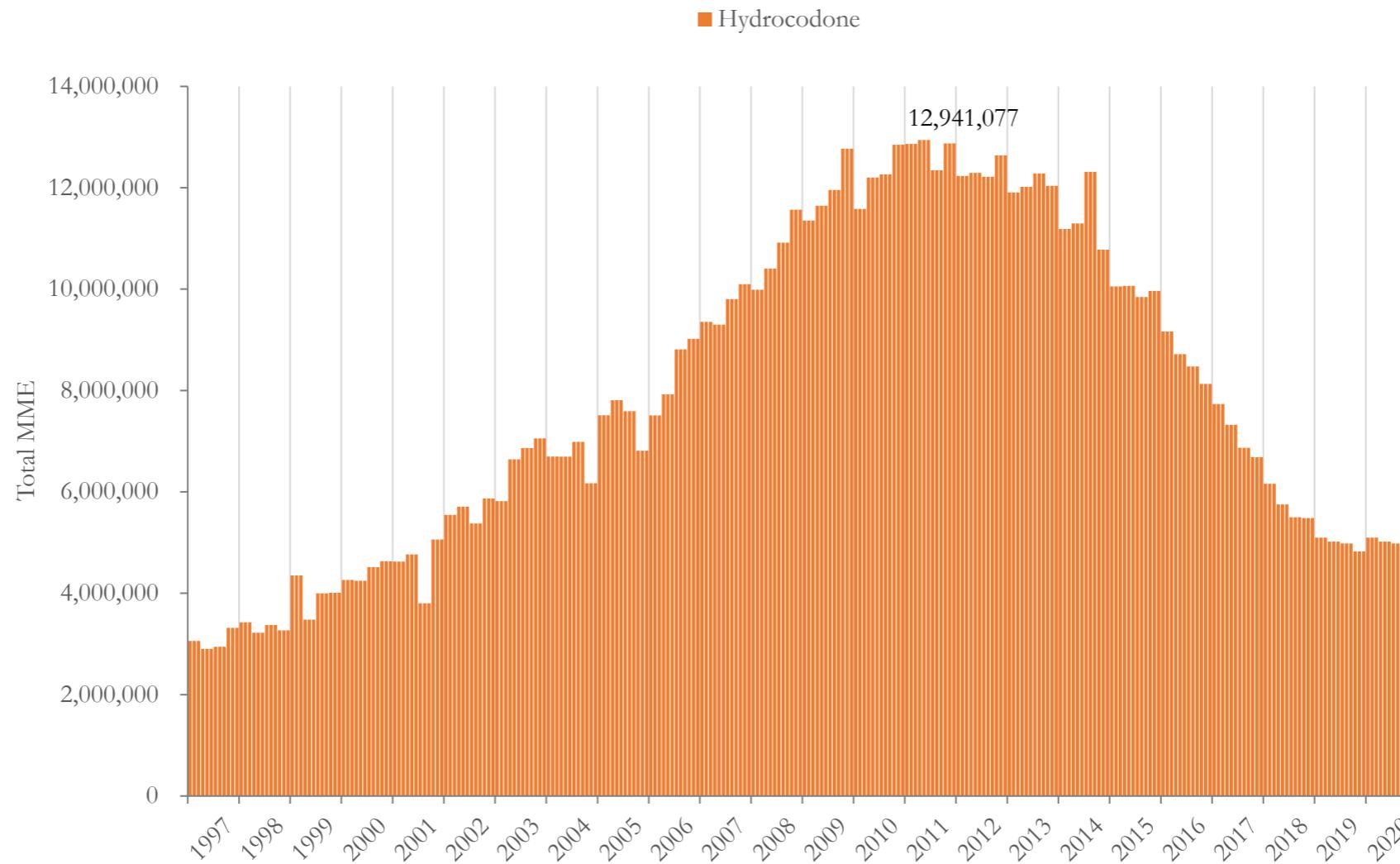
Opioid Drug Distribution to Zip Code 440, 444, 445



Opioid Drug Distribution to Zip Code 440, 444, 445



Opioid Drug Distribution to Zip Code 440, 444, 445



Region

Average Population	U.S.			State of Ohio			Lake/Trumbull			Lake County, OH			Trumbull County, OH					
	Total		%	Annual Dosage Unit		%	Total		%	Annual Dosage Unit		%	Total		%	Annual Dosage Unit		%
	Dosage	Unit		Dosage	Unit		Dosage	Unit		Dosage	Unit		Dosage	Unit		Dosage	Unit	
Buyer Business Activity																		
Chain Pharmacy	61,680,021,561	55.6%	22.18	3,117,870,985	64.2%	30.03	147,308,270	73.4%	37.23	68,452,500	80.9%	33.13	78,855,770	67.9%	41.70			
Retail Pharmacy	38,869,875,000	35.0%	13.98	1,318,811,472	27.1%	12.70	50,761,550	25.3%	12.83	15,178,070	17.9%	7.35	35,583,480	30.6%	18.82			
Retail and Chain Pharmacy Total	100,549,896,561	90.6%	36.16	4,436,682,457	91.3%	42.74	198,069,820	98.6%	50.06	83,630,570	98.8%	40.48	114,439,250	98.5%	60.52			
Hospital/Clinic	3,514,608,103	3.2%	1.26	156,676,167	3.2%	1.51	2,585,075	1.3%	0.65	894,805	1.1%	0.43	1,690,270	1.5%	0.89			
Hosp/Clinic-VA	2,044,865,650	1.8%	0.74	73,346,520	1.5%	0.71	0	0.0%	0.00	0	0.0%	0.00	0	0.0%	0.00			
M/O Pharmacy	1,725,512,572	1.6%	0.62	169,531,300	3.5%	1.63	0	0.0%	0.00	0	0.0%	0.00	0	0.0%	0.00			
Pharmacy - Fed	1,600,384,279	1.4%	0.58	0	0.0%	0.00	0	0.0%	0.00	0	0.0%	0.00	0	0.0%	0.00			
Other*	1,522,320,443	1.4%	0.55	21,349,849	0.4%	0.21	167,882	0.1%	0.04	129,064	0.2%	0.06	38,818	0.0%	0.02			
Grand Total	110,957,587,609	100.0%	39.91	4,857,586,293	100.0%	46.79	200,822,777	100.0%	50.75	84,654,439	100.0%	40.98	116,168,338	100.0%	61.43			

*Other includes Practitioner, Hosp/Clinic- Mil, Central Fill Pharmacy, Hosp/Clinic Fed, Practitioner-DW/30, Practitioner-DW/100, Practitioner-DW/275, MLP-Physician Assistant, Pharmacy- Mil, MLP-Nurse Practitioner, MLP-Nurse Practitioner-DW/30, MLP-Physician Assistant-DW/30, MLP-Naturopathic Physician, Teaching Institution, MLP-Optometrist, Practitioner-Military, Canine Handler, Comp/Maint/Detox, MLP-Animal Shelter, MLP-Ambulance Service, Maint & Detox, Automated Dispensing System, Detoxification, Maintenance, MLP-Physician Assistant-DW/100, Chain Hosp/Clinic, MLP-Nurse Practitioner-DW/100, MLP-Dept Of State, MLP-Military, Compound/Detox, Compound/Maint

Data Source: ARCOS (2006 – 2014), U.S. Census Bureau

Pharmacy Market Share by Dosage Unit

Region	U.S.	State of Ohio			Lake/Trumbull			Lake County, OH			Trumbull County, OH				
Average Population	308,923,291	Total Dosage Unit	%	Annual Dosage Unit per Cap	Total Dosage Unit	%	Annual Dosage Unit per Cap	Total Dosage Unit	%	Annual Dosage Unit per Cap	Total Dosage Unit	%	Annual Dosage Unit per Cap		
Pharmacies															
Walgreen Co	17,056,533,483	17.0%	6.13	617,348,410	13.9%	5.95	31,511,510	15.8%	7.96	15,864,250	18.9%	7.68	15,647,260	13.6%	8.27
CVS	13,304,695,269	13.2%	4.79	734,209,710	16.5%	7.07	28,316,710	14.2%	7.16	17,177,220	20.4%	8.31	11,139,490	9.7%	5.89
Wal-Mart	7,424,757,210	7.4%	2.67	303,619,070	6.8%	2.92	11,736,730	5.9%	2.97	7,335,100	8.7%	3.55	4,401,630	3.8%	2.33
Rite Aid	5,369,464,135	5.3%	1.93	436,793,330	9.8%	4.21	35,235,710	17.7%	8.90	9,727,450	11.6%	4.71	25,508,260	22.2%	13.49
HBC (Giant Eagle)	416,620,010	0.4%	0.15	190,933,120	4.3%	1.84	30,197,470	15.2%	7.63	10,796,780	12.8%	5.23	19,400,690	16.9%	10.26
Other Chain Pharmacies	18,107,951,455	18.0%	6.51	834,967,345	18.8%	8.04	11,140,900	5.6%	2.82	8,057,860	9.6%	3.90	3,083,040	2.7%	1.63
Chain Pharmacies Total	61,680,021,561	61.3%	22.18	3,117,870,985	70.3%	30.03	148,139,030	74.5%	37.44	68,958,660	82.0%	33.38	79,180,370	69.0%	41.87
Retail Pharmacies Total	38,869,875,000	38.7%	13.98	1,318,811,472	29.7%	12.70	50,761,550	25.5%	12.83	15,178,070	18.0%	7.35	35,583,480	31.0%	18.82
Total	100,549,896,561	100.0%	36.16	4,436,682,457	100.0%	42.74	198,900,580	100.0%	50.27	84,136,730	100.0%	40.73	114,763,850	100.0%	60.69

Oxycodone and Hydrocodone Dispensed in Dosage Unit

Region	 					
Average Population	Lake/Trumbull 439,668	Lake County, OH 229,550	Trumbull County, OH 210,118			
Defendants	Total Dosage Unit	Annual Dosage Unit per Cap	Total Dosage Unit	Annual Dosage Unit per Cap	Total Dosage Unit	Annual Dosage Unit per Cap
CVS	39,039,873	6.38	23,505,230	7.36	15,534,643	5.31
HBC (Giant Eagle)	42,256,160	6.86	15,842,300	4.93	26,413,860	8.98
Rite Aid	51,530,098	8.42	13,751,012	4.31	37,779,086	12.92
Walgreens	48,304,660	7.80	22,173,944	6.86	26,130,716	8.83
Wal-Mart	14,118,046	2.60	9,024,028	3.19	5,094,018	1.97
Total	195,248,837	31.53	84,296,514	26.08	110,952,323	37.49

Notes:

Data Source: Chain Pharmacy Defendants' Dispensing Data.

Defendant	Date Period
CVS	1/2006 - 11/2019
HBC (Giant Eagle)	1/2006 - 12/2019
Rite Aid	1/2006 - 11/2019
Walgreens	1/2006 - 1/2020
Wal-Mart	1/2006 - 4/2018

Oxycodone Dispensed in Dosage Unit

Region	 					
Average Population	Lake/Trumbull 439,668	Lake County, OH 229,550	Trumbull County, OH 210,118			
Defendants	Total Dosage Unit	Annual Dosage Unit per Cap	Total Dosage Unit	Annual Dosage Unit per Cap	Total Dosage Unit	Annual Dosage Unit per Cap
CVS	17,840,444	2.92	13,007,492	4.07	4,832,952	1.65
HBC (Giant Eagle)	15,534,964	2.52	7,701,372	2.40	7,833,592	2.66
Rite Aid	23,843,001	3.90	8,818,397	2.76	15,024,604	5.14
Walgreens	24,055,757	3.88	13,055,332	4.04	11,000,425	3.72
Wal-Mart	6,847,257	1.26	5,210,503	1.84	1,636,754	0.63
Total	88,121,423	14.23	47,793,096	14.78	40,328,327	13.63

Notes:

Data Source: Chain Pharmacy Defendants' Dispensing Data.

Defendant	Date Period
CVS	1/2006 - 11/2019
HBC (Giant Eagle)	1/2006 - 12/2019
Rite Aid	1/2006 - 11/2019
Walgreens	1/2006 - 1/2020
Wal-Mart	1/2006 - 4/2018

Hydrocodone Dispensed in Dosage Unit

Region	 					
Average Population	Lake/Trumbull 439,668	Lake County, OH 229,550	Trumbull County, OH 210,118			
Defendants	Total Dosage Unit	Annual Dosage Unit per Cap	Total Dosage Unit	Annual Dosage Unit per Cap	Total Dosage Unit	Annual Dosage Unit per Cap
CVS	21,199,429	3.47	10,497,738	3.29	10,701,691	3.66
HBC (Giant Eagle)	26,721,196	4.34	8,140,928	2.53	18,580,268	6.32
Rite Aid	27,687,097	4.53	4,932,615	1.54	22,754,482	7.78
Walgreens	24,248,903	3.92	9,118,612	2.82	15,130,291	5.11
Wal-Mart	7,270,789	1.34	3,813,525	1.35	3,457,264	1.33
Total	107,127,414	17.30	36,503,418	11.29	70,623,996	23.87

Notes:

Data Source: Chain Pharmacy Defendants' Dispensing Data.

Defendant	Date Period
CVS	1/2006 - 11/2019
HBC (Giant Eagle)	1/2006 - 12/2019
Rite Aid	1/2006 - 11/2019
Walgreens	1/2006 - 1/2020
Wal-Mart	1/2006 - 4/2018